

# PHENIX WEEKLY PLANNING

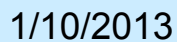
TECHNICAL SUPPORT 2013



→  
Rolled back  
Out for VTX/  
FVTX Removal



1/10/2013  
Don Lynch



## Next Week

TECHNICAL SUPPORT 2013

- Evaluate VTX/FVTX East, return to IR for run
- Install and cable FVTX/VTX East
- Continue working on RPC3 shielding
- Continue window Washer safety upgrades
- Continue sPHENIX design support
- Continue MPC-Ex design support
- Begin Pink/White/Blue sheets





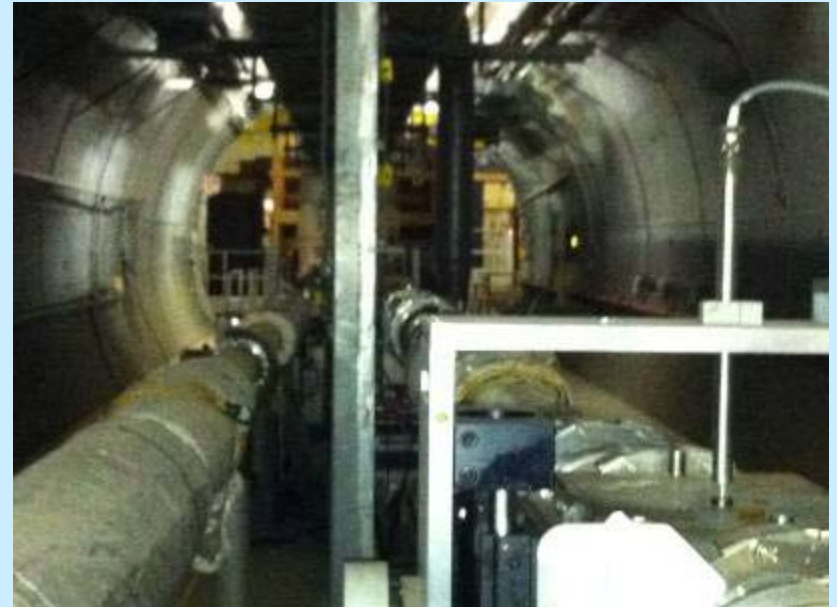
## RPC Background Attenuation Project

TECHNICAL SUPPORT 2013

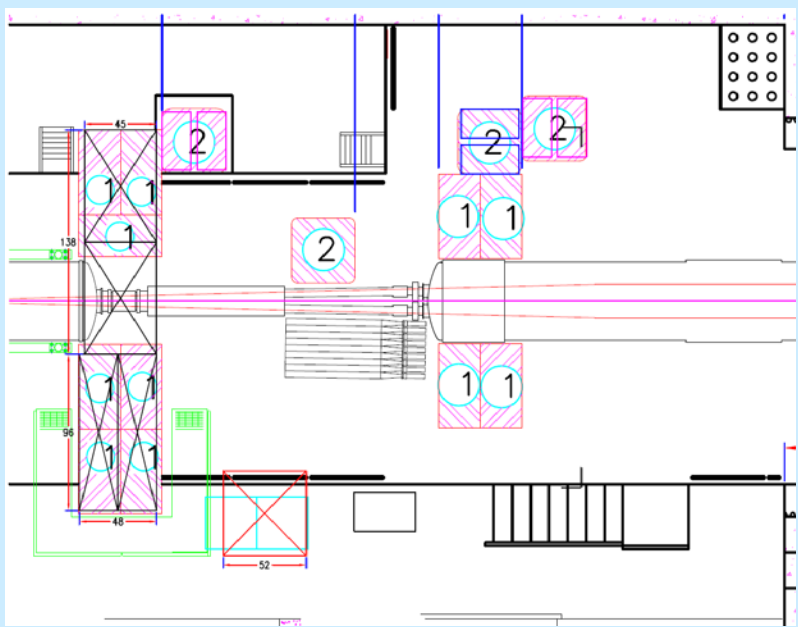
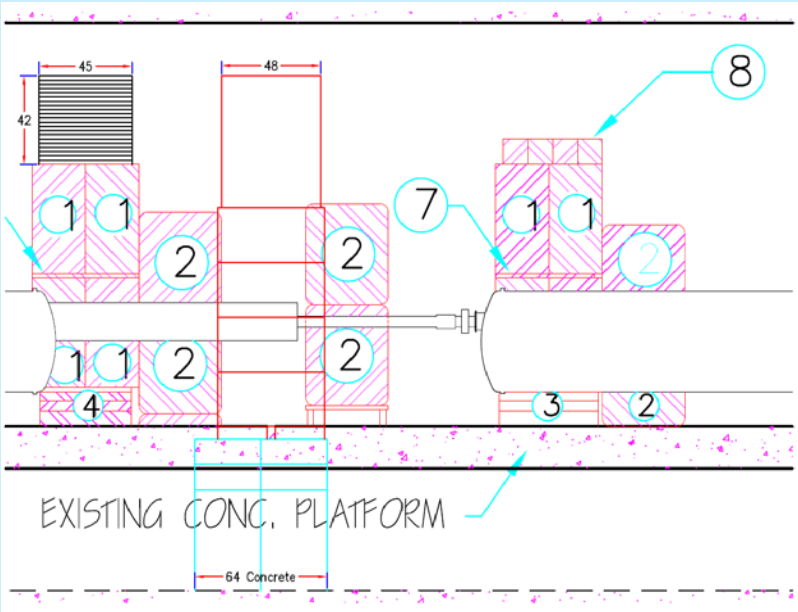


Looking towards RPC3 North  
 ← East                      West →

Large shielding modifications at Q2 upstream  
 north and south to be planned and installed by  
 CA-D (Dave Phillips) by 12/14/2012. **In**  
**progress this week**

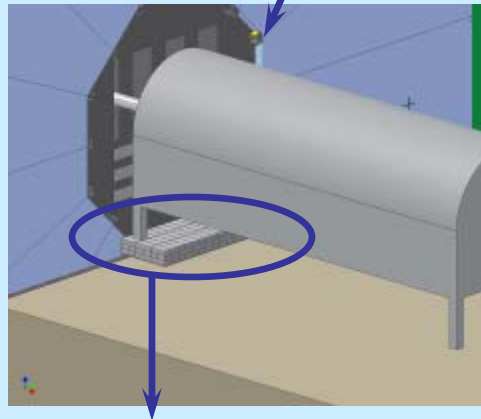
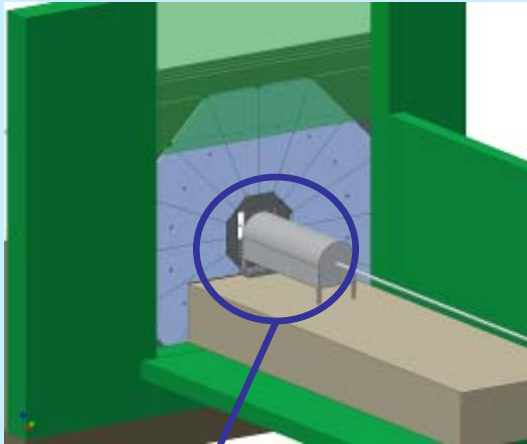


Looking towards RPC3 South  
 ← West                      East →



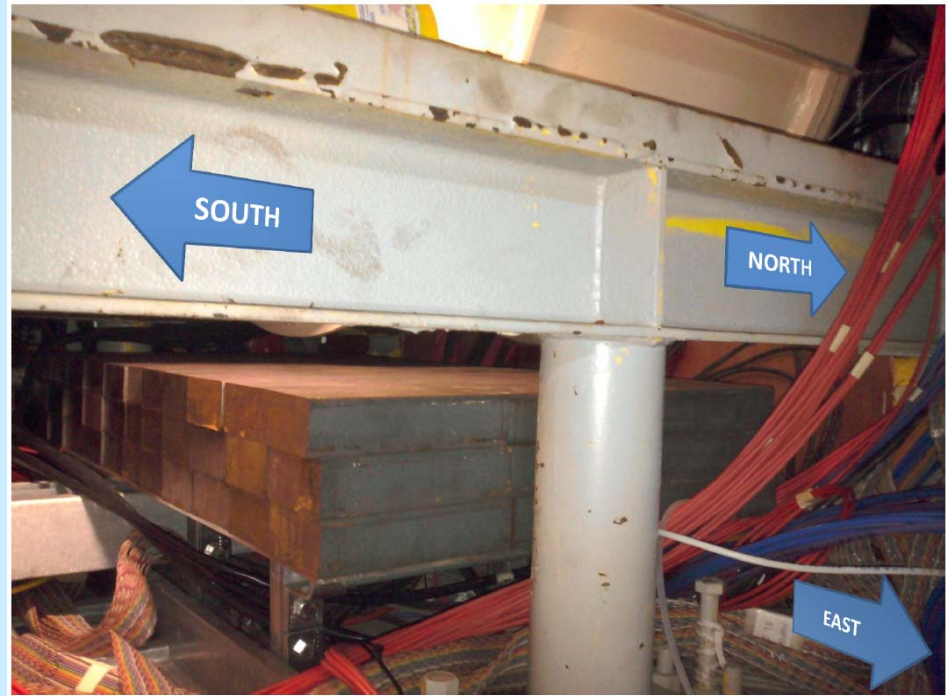
# RPC Background Attenuation Project

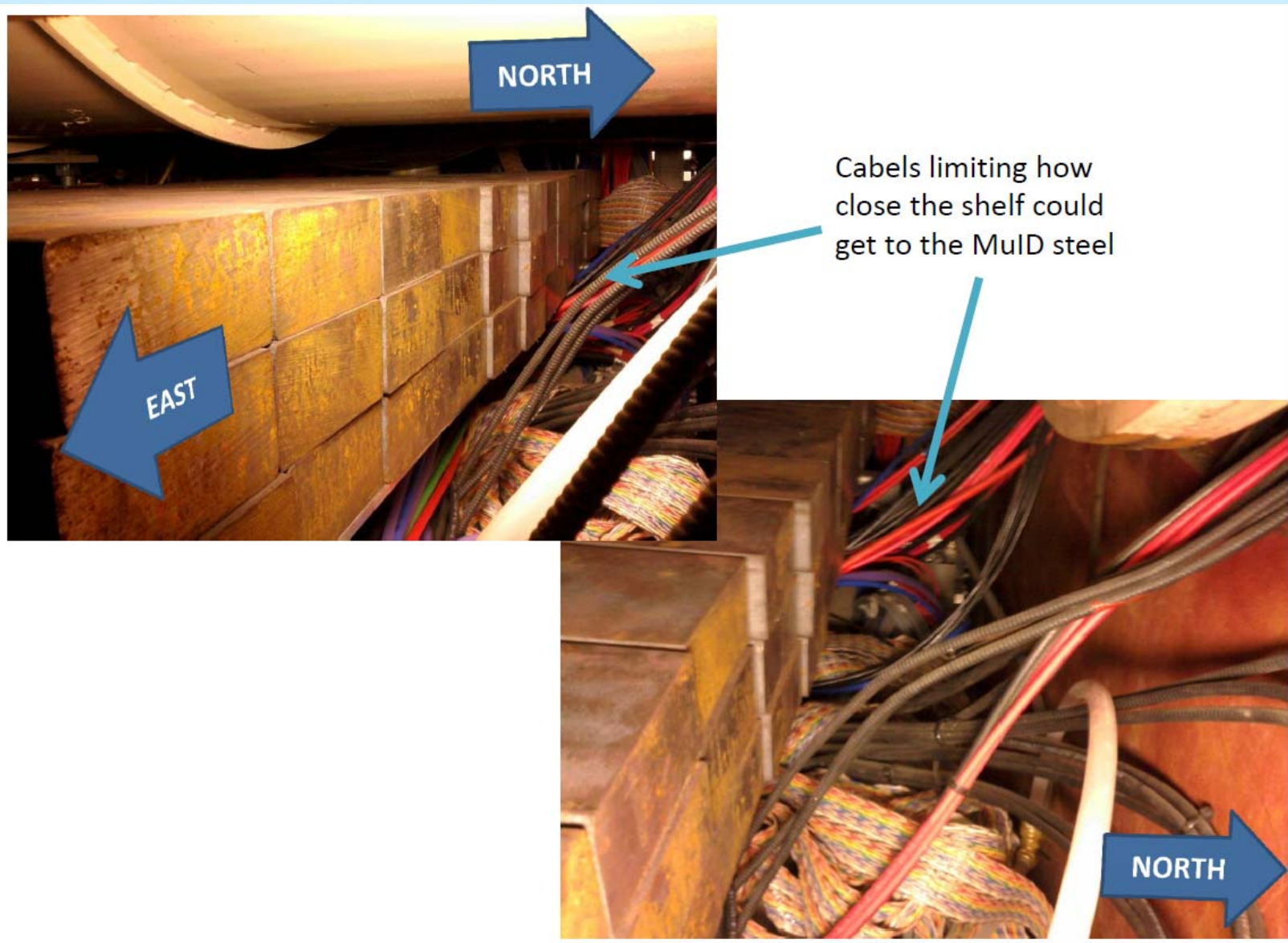
TECHNICAL SUPPORT 2013



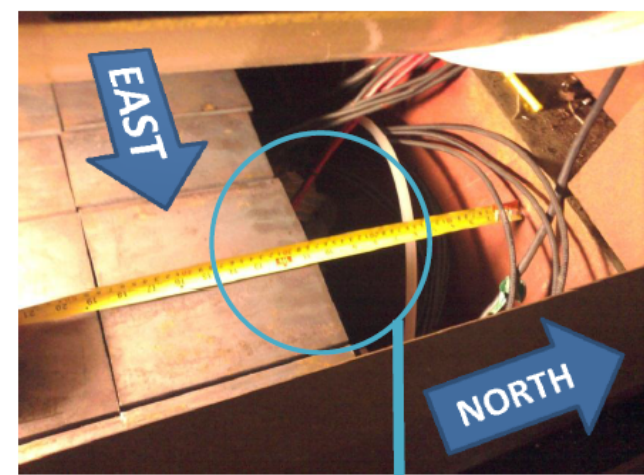
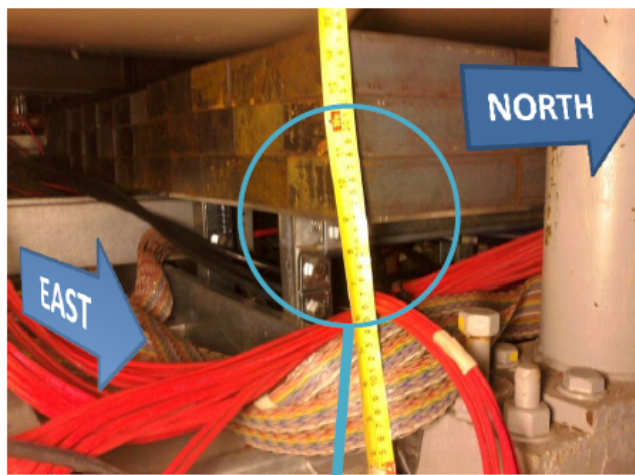
144 Steel bricks, 2x4x8,  
stacked in 3 high, 16 wide, 3  
rows, respectively by 11/21

Under DX at RPC3 South





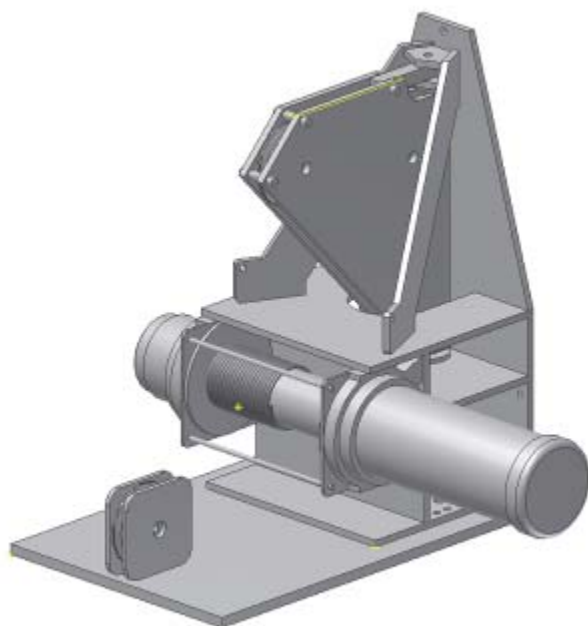
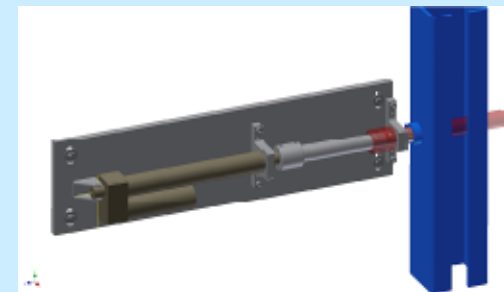




## Window Washer Remote Pin Removal and Winch/spooler safety upgrades

Space available:  
16.5" x 27" x 28" h

Space needed for model  
20" x 32" x 32.58" h



### PHENIX Electronics Upgrades

1. Install second MODBUS server in counting house. - TBD

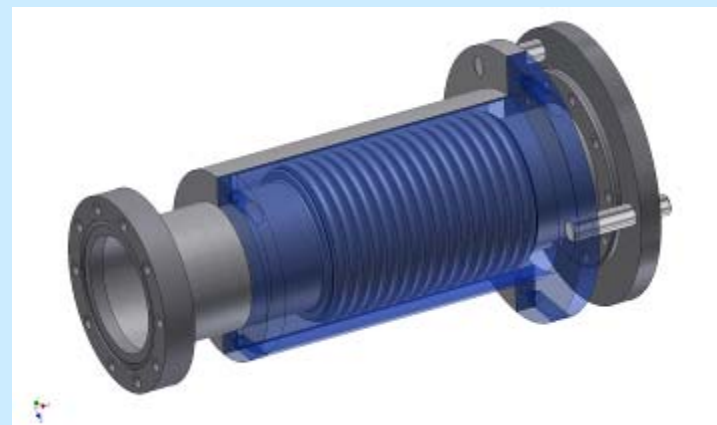
### Additional Work for 2012, not yet scheduled, to be fit in as available

1. identify obsolete services passing through sill and remove them. - As time is available
2. Cover for services coming from IR through sill. - After Shutdown
3. Plan for stripping out TEC electronics and services to free up TEC racks. - As time is available

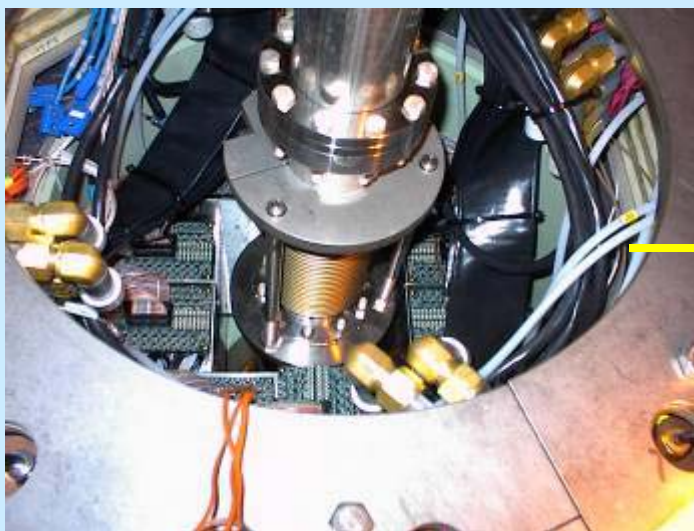




Existing vacuum bellows anti-squirm  
In MPC S Cavity

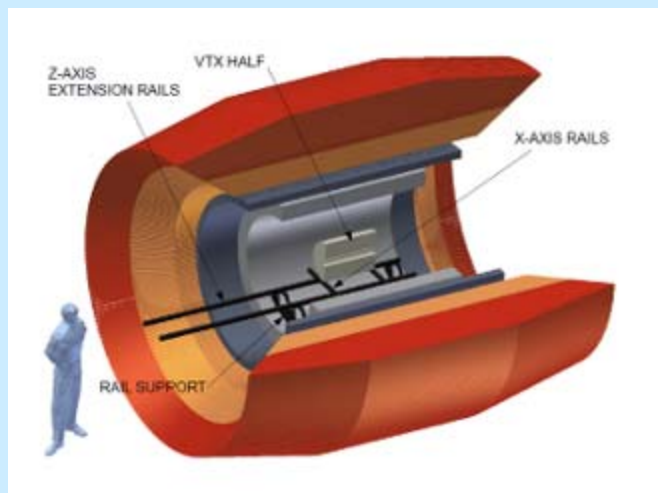


Proposed vacuum bellows anti-squirm  
In MPC S Cavity to accommodate MPC-Ex



MPCS Flat cables replaced with round cables.

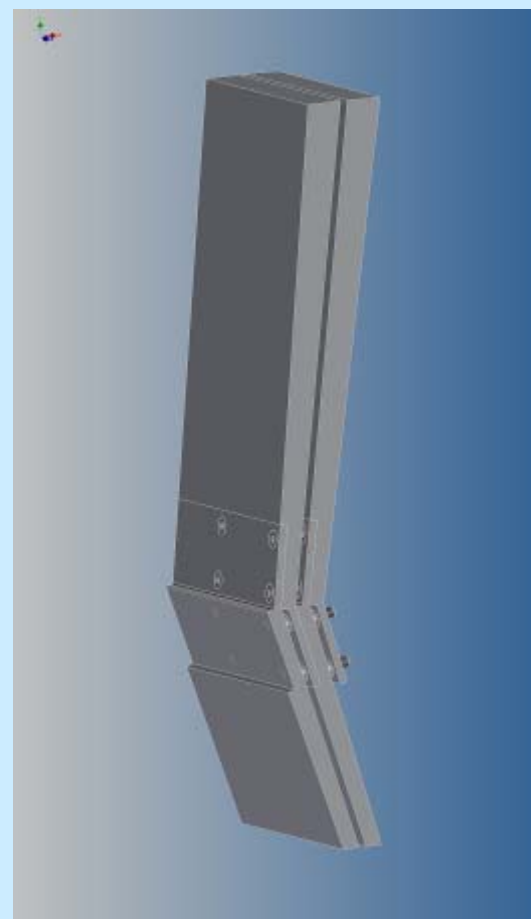
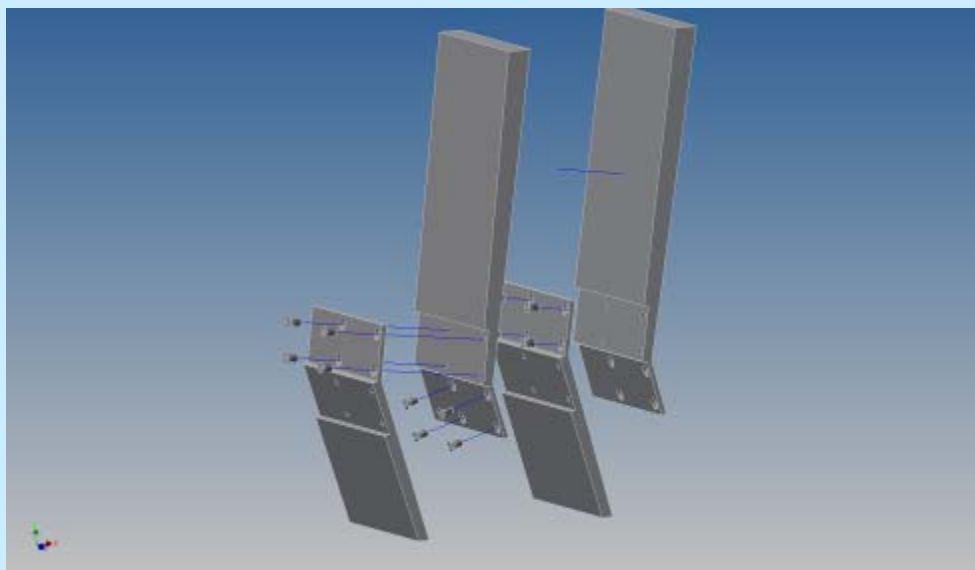




## sPHENIX Proposed Upgrade

Work continues evaluating engineering tradeoffs for EMCal and HCal design, materials, etc.

Prototype HCal and EMCal in progress



## 2012 Shutdown Schedule Remaining Tasks

TECHNICAL SUPPORT 2013

VTX/FVTX Remove leaking circuits and prep for run	
De-cable and disconnect utilities for VTX/FVTX East	Done
Disconnect gas, water, electric, fibers from EC	Done
Move EC to AH	Done
Dismount VTX/FVTX East	Done
Prep Chemistry Lab for VTX/FVTX East	Done
Transport VTX/FVTX East to Chemistry Lab	Done
Document Current configuration	1/8/13
Remove FVTX Cages	1/9/13
Dismount VTX Strip Layers	1/9/13
Dismount VTX Strip-Pixel Layers	1/10/13
Test FVTX	1/10/13
Design and fabricate VTX stiffeners and bigwheel spacer/seals	1/7-1/11/13
Re-assemble FVTX with VTX stiffeners and spacer/seals	1/11-14/13
Transport FVTX to 1008 and install on rails	1/15/13
Align and Survey FVTX East	1/16-17/2013
Move EC to IR	1/18/2013
Martin Luther King Holiday weekend	1/19-1/21/2013
Re-connect gas, water, electric, fibers from EC	1/22/2013
Re-cable and re-store utilities to FVTX East and isolate (valve off)	
VTX West circuits	1/15-1/22/13
Test and Commission FVTX	1/23-2/8/2013

# Run 13 Prep Schedule Remaining Tasks (continued)

TECHNICAL SUPPORT 2013

RPC Shielding under DX magnets	1/18/2013
RPC tunnel Shielding (Dave Phillips)	1/31/2013
Window Washer pin & spool upgrades	1/13/2013
Start Watch Shifts	1/22/2013 ?
Unfold the EC platforms, re-install safety rails, and re-install the EC material lift and ladder (dumb waiter) BNL carpenters and Riggers under CAD supervision	1/23/2013
Move the MMS north	1/24/2013
Install the MuID Collars	1/25/2013
Magnet Tests (white Sheets)	1/28/2013
Pink Sheets	1/29-2/1/2013
Blue Sheets	2/1-7/2013
Assemble shield Wall	2/4-7/2013
Roll-in shield wall	2/8/2013
Safety system checkout complete/start flammable gas flow	2/8/2013
Start run 13(cooldown)	2/11/2013

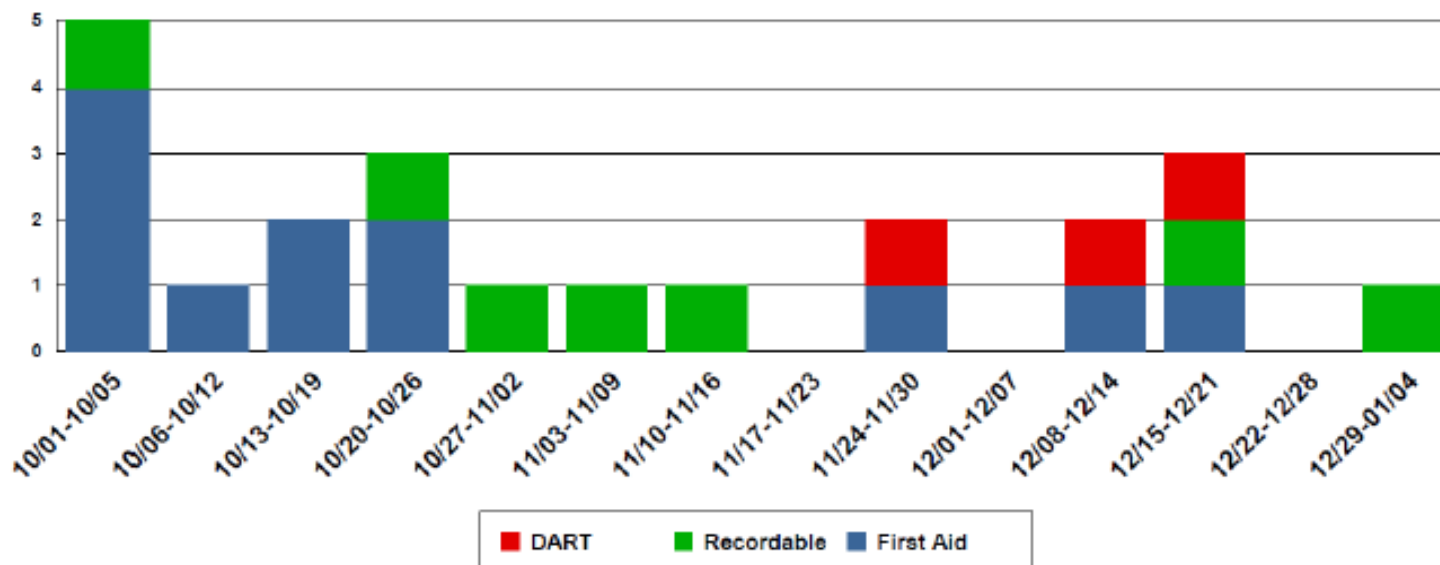
1. PHENIX Annual Safety Review Before XMAS - (Don, Paul, Rob, Steve)  
Went well no major issues
2. RHIC 's six service buildings and the tunnel will be posted as ODH-0 on Monday 1/14/13 as magnet cool down to 45K begins.
3. Tunnels will be posted ODH1 ~ Feb 11,13. Please make sure your ODH1 and POM training is up to date before then, if you expect to need to access the tunnel now and/or during the run.





## Injuries Per Week (FY) As of 1/4/2013

Safety and Security



### Injury Status:

FY13 YTD: DART – 3, TRC – 10, First Aid – 12

FY12: DART – 17, TRC – 35, First Aid – 70

FY11: DART – 30, TRC – 44, First Aid – 45

FY13 Injury Listing: <https://intranet.bnl.gov/esh/shsd/seq/OccInj/BNLIInjuries.aspx>

### Recent Injuries

12/31/12	Recordable	An employee lacerated a finger while using a tool. At the OMC, the worker was examined and then sent to a local ER for sutures. ( <a href="#">Event Link</a> )
12/18/12	DART	An employee was gathering materials from a storage area, when he turned, tripped and fell onto other materials. At the clinic, he was examined and sent home. The worker is currently losing time. This is a DART case. ( <a href="#">Event Link</a> )
12/17/12	DOE Recordable	An employee was injured while dismantling equipment. At the ER a suture was required to close the wound. This is recordable. ( <a href="#">Event Link</a> )
12/17/12	First Aid	An employee struck his head on the overhead garage door. At the OMC, first aid was given. ( <a href="#">Event Link</a> )
11/28/12	DART	An employee fell while using a leaf blower. At the OMC, he received first aid treatment and returned to work. He was sent for x-rays, read by a radiologist that showed a non-displaced fracture. However, this opinion was overridden by his treating orthopedist who indicated it was not a fracture nor was there evidence of torn ligaments nor tendons. He is out of work. This is a DART case.

Recent Events		
1/2/13	Non-Reportable	An A/C unit in Bldg. 940 had an overheated electrical fuse internal to the unit causing smoke. The A/C technician called BNL Fire/Rescue to respond. When de-energized the overheating stopped, as did the smoke. Fire/Rescue did not extinguish any fire. The building was ventilated by opening doors at both ends of the building without the use of any fans. ( <a href="#">Event Link</a> )
12/28/12	Non-Reportable	An employee reported to a complaint at Bldg. 901 where a P-10 gas cylinder associated with a Tennelec smear counter had been replaced by an RCD technician. Once installed, the replacement cylinder labeled unused and containing P-10 gas was reading a pressure of 0 psig. This cylinder was delivered to Bldg. 901 in early December. While investigating the issue it was determined that the cylinder was empty and under vacuum. The cylinder in question was replaced and the instrument returned to service. The problem cylinder is now labeled as to its condition and stored in the Bldg. 901 cylinder rack. ( <a href="#">Event Link</a> )
12/20/12	SC-BNL	An employee driving a personal vehicle was pulling into a parking spot in the 911 parking lot. While parking the employee hit a light post. The light post was knocked down. There were no injuries. The vehicle sustained damaged and was towed off site. Electricians were called to remove electrical power. No one was in the vicinity of the fallen post. ( <a href="#">Event Link</a> )
12/18/12	Non-Reportable	A pump overheated in 912 resulting in a light smoke condition and activating the smoke alarm. There was no fire. The pump was secured and the area ventilated. ( <a href="#">Event Link</a> )
12/18/12	Non-Reportable	A rigger was backing up a tractor trailer in the building 1010 area and struck a personal vehicle that was parked behind the truck. There was no personal injury, There was damage to the rear of the personal vehicle. ( <a href="#">Event Link</a> )

## Where To Find PHENIX Engineering Info

**Run 13  
begins 2/11/13  
(cooldown)**

*Schedule is tight but we are confident that we can meet it.*

*2013 shutdown Planning:*

*Remove FVTX east and FVTX/VTX west, repair and restore damaged parts*

*Install at least  $\frac{1}{2}$  of MPC-Ex (north)*

*Modifications to MPC north and south to accommodate MPC-Ex.*

*Looks like we'll be busy again, get your requests for work in early*

[http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL\\_SSint-page.htm](http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm)

